

JC675 U.S. PTO  
10/024607  
11/08/01



-1-

SEQUENCE LISTING

<110> Lee, Richard T.

<120> CARDIOVASCULAR DISEASE DIAGNOSTIC AND THERAPEUTIC TARGETS

<130> B0801/7231/ERP/KA

<150> US 60/247,457

<151> 2000-11-09

<160> 33

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 2586

<212> DNA

<213> Rattus norvegicus

<220>

<221> mRNA

<222> (1)...(2586)

<223> Fit-1S

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BEST AVAILABLE COPY

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<213> Rattus norvegicus

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<222> (1)...(336)  
<223> Fit-1S

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Thr	Gln	Lys	Arg	Asn	Arg	Ile	Phe	Val	Ser	Arg	Asp	Arg	Leu	Lys	Phe
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Leu	Pro	Ala	Lys	Val	Glu	Asp	Ser	Gly	Ile	Tyr	Thr	Cys	Val	Ile	Arg
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Arg	Pro	Pro	Asn	Cys	Lys	Ile	Pro	Asp	Tyr	Met	Met	Tyr	Ser	Thr	Val
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Tyr	Asn	Trp	Thr	Ala	Pro	Val	Gln	Trp	Phe	Lys	Asn	Cys	Lys	Ala	Leu
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Gln	Gly	Pro	Arg	Phe	Arg	Ala	His	Met	Ser	Tyr	Leu	Phe	Ile	Asp	Lys
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Val	Ser	His	Val	Asp	Glu	Gly	Asp	Tyr	Thr	Cys	Arg	Phe	Thr	His	Thr
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Glu	Asn	Gly	Thr	Asn	Tyr	Ile	Val	Thr	Ala	Thr	Arg	Ser	Phe	Thr	Val
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Glu	Glu	Lys	Gly	Phe	Ser	Thr	Phe	Pro	Val	Ile	Thr	Asn	Pro	Pro	His
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Asn	Tyr	Thr	Val	Glu	Val	Glu	Ile	Gly	Lys	Thr	Ala	Asn	Ile	Ala	Cys
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Ser	Ala	Cys	Phe	Gly	Thr	Ala	Ser	Gln	Phe	Val	Ala	Val	Leu	Trp	Gln
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Ile Asn Lys Thr Arg Ile Gly Ser Phe Gly Lys Ala Arg Ile Gln Glu  
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Glu Lys Gly Pro Asn Lys Ser Ser Ser Asn Gly Met Ile Cys Leu Thr  
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Ser Leu Leu Arg Ile Thr Gly Val Thr Asp Lys Asp Phe Ser Leu Lys  
290 295 300  
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<212> DNA  
<213> Rattus norvegicus

<220>  
<221> mRNA  
<222> (1)...(2065)  
<223> Fit-1M

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cactcacacg	gagaacggaa	ccaattacat	tgtgactgcc	accagatcat	tcacagtta	900
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<212> PRT  
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<220>  
<221> PEPTIDE  
<222> (1)...(566)  
<223> Fit-1M

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35 40 45  
Ile Asn Pro Val Glu Trp Tyr Tyr Ser Asn Thr Asn Glu Arg Ile Pro  
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Thr Gln Lys Arg Asn Arg Ile Phe Val Ser Arg Asp Arg Leu Lys Phe  
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Ser Pro Glu Ser Ile Lys Thr Gly Ser Leu Asn Val Thr Ile Tyr Lys  
100 105 110  
Arg Pro Pro Asn Cys Lys Ile Pro Asp Tyr Met Met Tyr Ser Thr Val  
115 120 125  
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130 135 140  
Tyr Asn Trp Thr Ala Pro Val Gln Trp Phe Lys Asn Cys Lys Ala Leu  
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Gln Gly Pro Arg Phe Arg Ala His Met Ser Tyr Leu Phe Ile Asp Lys  
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Val Ser His Val Asp Glu Gly Asp Tyr Thr Cys Arg Phe Thr His Thr  
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195 200 205  
Glu Glu Lys Gly Phe Ser Thr Phe Pro Val Ile Thr Asn Pro Pro His  
210 215 220  
Asn Tyr Thr Val Glu Val Ile Gly Lys Thr Ala Asn Ile Ala Cys  
225 230 235 240  
Ser Ala Cys Phe Gly Thr Ala Ser Gln Phe Val Ala Val Leu Trp Gln  
245 250 255  
Ile Asn Lys Thr Arg Ile Gly Ser Phe Gly Lys Ala Arg Ile Gln Glu  
260 265 270  
Glu Lys Gly Pro Asn Lys Ser Ser Ser Asn Gly Met Ile Cys Leu Thr  
275 280 285  
Ser Leu Leu Arg Ile Thr Gly Val Thr Asp Lys Asp Phe Ser Leu Lys  
290 295 300  
Tyr Asp Cys Val Ala Met Asn His His Gly Val Ile Arg His Pro Val  
305 310 315 320  
Arg Leu Arg Arg Lys Gln Pro Ile Asp His Gln Ser Thr Tyr Tyr Ile  
325 330 335  
Val Ala Gly Cys Ser Leu Leu Leu Met Phe Ile Asn Val Leu Val Ile  
340 345 350  
Val Leu Lys Val Phe Trp Ile Glu Val Ala Leu Phe Trp Arg Asp Ile

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385	390	395
Val Glu Tyr Phe Val His Tyr Thr Leu Pro Asp Val Leu Glu Asn Lys		
405	410	415
Cys Gly Tyr Lys Leu Cys Ile Tyr Gly Arg Asp Leu Leu Pro Gly Gln		
420	425	430
Asp Ala Ala Thr Val Val Glu Ser Ser Ile Gln Asn Ser Arg Arg Gln		
435	440	445
Val Phe Val Leu Ala Pro His Met Met His Ser Lys Glu Phe Ala Tyr		
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Glu Gln Glu Ile Ala Leu His Ser Ala Leu Ile Gln Asn Asn Ser Lys		
465	470	475
Val Ile Leu Ile Glu Met Glu Pro Met Gly Glu Ala Ser Arg Leu Gln		
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Leu Gly Asp Leu Gln Asp Ser Leu Gln His Leu Val Lys Met Gln Gly		
500	505	510
Thr Ile Lys Trp Arg Glu Asp His Val Ala Asp Lys Gln Ser Leu Ser		
515	520	525
Ser Lys Phe Trp Lys His Val Arg Tyr Gln Met Pro Val Pro Lys Arg		
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<212> DNA

<213> Rattus norvegicus

<220>

<221> mRNA

<222> (1)...(1614)

<223> vacuolar ATPase

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<211> 511

<212> PRT

<213> Rattus norvegicus

<220>

<221> PEPTIDE

<222> (1)...(511)

<223> vacuolar ATPase

<400> 6

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Thr Val Ser Gly Val Asn Gly Pro Leu Val Ile Leu Asp His Val Lys			
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Phe Pro Arg Tyr Ala Glu Ile Val His Leu Thr Leu Pro Asp Gly Thr			
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Lys Arg Ser Gly Gln Val Leu Glu Val Ser Gly Ser Lys Ala Val Val			
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Gln Val Phe Glu Gly Thr Ser Gly Ile Asp Ala Lys Lys Thr Ser Cys			
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Glu Phe Thr Gly Asp Ile Leu Arg Thr Pro Val Ser Glu Asp Met Leu			
115	120	125	
Gly Arg Val Phe Asn Gly Ser Gly Lys Pro Ile Asp Arg Gly Pro Val			
130	135	140	
Val Ile Ala Glu Asp Phe Leu Asp Ile Met Gly Gln Pro Ile Asn Pro			
145	150	155	160
Gln Cys Arg Ile Tyr Pro Glu Glu Met Ile Gln Thr Gly Ile Ser Ala			
165	170	175	
Ile Asp Gly Met Asn Ser Ile Ala Arg Gly Gln Lys Ile Pro Ile Phe			
180	185	190	
Ser Ala Ala Gly Leu Pro His Asn Glu Ile Ala Ala Gln Ile Cys Arg			
195	200	205	
Gln Ala Gly Leu Val Lys Lys Ser Lys Asp Val Val Asp Tyr Ser Glu			
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Glu Asn Phe Ala Ile Val Phe Ala Ala Met Gly Val Asn Met Glu Thr			
225	230	235	240
Ala Arg Phe Phe Lys Ser Asp Phe Glu Glu Asn Gly Ser Met Asp Asn			
245	250	255	
Val Cys Leu Phe Leu Asn Leu Ala Asn Asp Pro Thr Ile Glu Arg Ile			
260	265	270	
Ile Thr Pro Arg Leu Ala Leu Thr Thr Ala Glu Phe Leu Ala Tyr Gln			
275	280	285	

Cys Glu Lys His Val Leu Val Ile Leu Thr Asp Met Ser Ser Tyr Ala  
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Glu Ala Leu Arg Glu Val Ser Ala Ala Arg Glu Glu Val Pro Gly Arg  
305 310 315 320  
Arg Gly Phe Pro Gly Tyr Met Tyr Thr Asp Ile Ala Thr Ile Tyr Glu  
325 330 335  
Arg Ala Gly Arg Val Glu Gly Arg Asn Gly Ser Ile Thr Gln Ile Pro  
340 345 350  
Ile Leu Thr Met Pro Asn Asp Asp Ile Thr His Pro Ile Pro Asp Leu  
355 360 365  
Thr Gly Tyr Ile Thr Glu Gly Gln Ile Tyr Val Asp Arg Gln Leu His  
370 375 380  
Asn Arg Gln Ile Tyr Pro Pro Ile Asn Val Leu Pro Ser Leu Ser Arg  
385 390 395 400  
Leu Met Lys Ser Ala Ile Gly Glu Gly Met Thr Arg Lys Asp His Ala  
405 410 415  
Asp Val Ser Asn Gln Leu Tyr Ala Cys Tyr Ala Ile Gly Lys Asp Val  
420 425 430  
Gln Ala Met Lys Ala Val Val Gly Glu Glu Ala Leu Thr Ser Asp Asp  
435 440 445  
Leu Leu Tyr Leu Glu Phe Leu Gln Lys Phe Glu Lys Asn Phe Ile Thr  
450 455 460  
Gln Gly Pro Tyr Glu Asn Arg Thr Val Tyr Glu Thr Leu Asp Ile Gly  
465 470 475 480  
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<212> DNA  
<213> Rattus norvegicus

<220>  
<221> mRNA  
<222> (1)...(2747)  
<223> glycoprotein CD44

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<211> 364

<212> PRT

<213> Rattus norvegicus

<220>

<221> PEPTIDE

<222> (1)...(364)

<223> glycoprotein CD44

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Tyr	Ala	Gly	Val	Phe	His	Val	Glu	Lys	Asn	Gly	Arg	Tyr	Ser	Ile	Ser
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<210> 9

<211> 5028

<212> DNA

<213> Rattus norvegicus

<220>

<221> mRNA

<222> (1)...(5028)

<223> Lot-1

<400> 9

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<213> Rattus norvegicus

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<222> (1)...(583)  
<223> Lot-1

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Gly Lys Lys Tyr His Thr Met Leu Gly Tyr Lys Arg His Met Ala Leu	
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Cys Glu Arg Cys Phe Tyr Thr Arg Lys Asp Val Arg Arg His Leu Val	
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Phe Gly Arg Lys Asp His Leu Thr Arg His Thr Lys Lys Thr His Ser	
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Pro Phe Gln Leu Glu Met Pro Pro Glu Ser Gly Leu Asp Gly Gly Leu	
245 250 255	
Pro Pro Glu Ile His Gly Leu Val Leu Ala Ser Pro Glu Glu Val Pro	

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Phe Thr Leu His Pro Gly Val Val Pro Ser Ser Pro Pro Pro Ile Ile		
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Leu Gln Glu His Lys Tyr Ser Pro Val Pro Thr Ser Phe Ala Pro Phe		
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Val Ser Met Pro Met Lys Ala Asp Leu Lys Gly Phe Cys Asn Met Gly		
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Ser Gln Cys Phe Glu Met Ala Lys Glu Gly Phe Gly Lys Val Thr Leu		
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Pro Lys Glu Leu Leu Val Asp Ala Val Asn Ile Ala Ile Pro Gly Ser		
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Pro Leu Pro His Arg Ile Thr Cys Leu Ala Gln Gln Pro Pro Pro		
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<220>  
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<210> 18  
<211> 2820  
<212> DNA  
<213> *Homo Sapiens*

<220>  
<221> mRNA  
<222> (1)...(2820)  
<223> human vacuolar H+-ATPase (56,000 subunit -H057)

<400> 18

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<210> 19

<211> 2457

<212> DNA

<213> Homo sapiens

<220>

<221> mRNA

<222> (1)...(2457)

<223> human vacuolar H<sup>+</sup>-ATPase B subunit

<400> 19

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<210> 20

<211> 2676

<212> DNA

<213> Bos taurus

<220>

<221> mRNA

<222> (1)...(2676)

<223> bovine vacuolar H<sup>+</sup>-ATPase B subunit

<400> 20

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60

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<210> 21  
<211> 3035  
<212> DNA  
<213> Gallus gallus

<220>  
<221> mRNA  
<222> (1)...(3035)  
<223> gallus vacuolar H+-ATPase

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<210> 22

<211> 1737

<212> DNA

<213> Homo sapiens

<220>

<221> mRNA  
<222> (1)...(1737)  
<223> human CD44R

<400> 22

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<220>

<221> mRNA  
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<223> human CD44

<400> 23

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<212> DNA  
<213> *Homo sapiens*

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<223> human LOT1

<400> 26

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<211> 2828

<212> DNA

<213> Homo sapiens

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<223> human ZAC zinc finger protein

<400> 27

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<213> Mus musculus

<220>

<221> mRNA

<222> (1)...(3975)

<223> mouse ZAC1 zinc finger protein

<400> 28

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<212> DNA  
<213> *Homo sapiens*

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<211> 2059  
<212> DNA  
<213> *Homo sapiens*

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<223> putative nucleotide binding protein,  
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 <212> DNA  
 <213> Mus musculus

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 <222> (1)...(1943)  
 <223> mouse mrg-1

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<212> DNA  
<213> *Homo sapiens*

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<222> (1)...(6324)  
<223> human p35srj

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